# Schlumberger

## Slimhole DST String

Downhole reservoir testing in small-casing wells



OD: 3.125 in



**Differential pressure:** 15,000 psi [103.4 MPa]



**Temperature:** 375 degF [190 degC]



**Certification:** NACE MR0175 compliant

#### Where it is used

- Downhole reservoir testing
- Deviated and deepwater wells
- Exploration and appraisal testing
- Completion operations

### How it improves wells

The slimhole drillstem testing (DST) string is designed for holes down to 41/2-in casing, enabling you to conduct well testing and gather data in small casing sizes that were previously untestable. The 15,000-psi, 375-degF HPHT testing string has similar features to the standard PCT\* pressure-controlled tester valve string and provides high operational flexibility and capability using 31/8-in × 11/8-in slim-diameter tools.

#### **How it works**

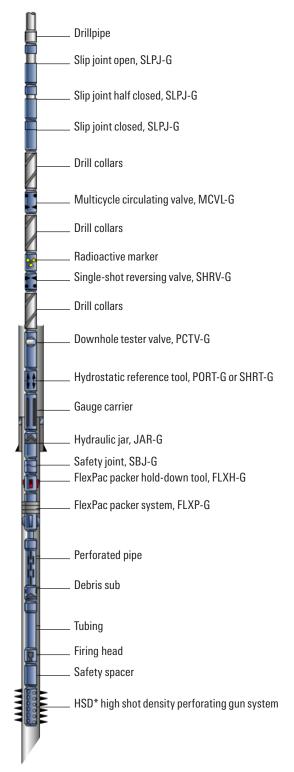
The multicycle circulating valve with lock (MCVL) is reclosable. In addition to reversing out to kill the well at the end of the test, it can be used to spot treat fluids and change out the cushion if necessary. The MCVL is tubing-pressure operated and provides system redundancy, as a single-shot reversing valve (SHRV) is run as a secondary reversing valve and is annulus-pressure operated.

The retrievable FlexPac\* highperformance service packer with holddown tool provides a rugged and reliable seal above the producing zone and string support and prevents pumping the string uphole because of hydraulic forces. Two or more slip joints (SLPJs) are run, as needed, to compensate for any string movement between the two fixed points at the packer and surface resulting from temperature changes during the job.

Schlumberger engineers customize the string design for optimal deployment to ensure that the necessary data is collected and risks are mitigated.

3.125 [79.37]
1.125 [28.57]
·
15,000 [103]
15,000 [103]
7,500 [51]
15,000 [103]
20,000 [137]
20,000 [137]
12,000 [82]
375 [190]
H₂S, acid
151,600 [675] <sup>‡</sup>
23/8-in regular or PH6

<sup>†</sup> Excluding packer



Slimhole DST string.

<sup>&</sup>lt;sup>‡</sup> 160,000 lbf [711 kN] if SLPJs are not required